

## METHOD AND APPARATUS FOR DELIVERING TARGETED THERAPY TO A PATIENT

### Abstract of the Disclosure

An applicator for delivering targeted radiation brachytherapy to tissue adjacent a cavity of a patient. The applicator includes a balloon adapted for introduction to the cavity of the patient, wherein the balloon has a deflated state in which the balloon is adapted for insertion into the cavity and an inflated state in which the balloon is enlarged for at least partially filling the cavity of the patient. The balloon moves from the deflated state to the inflated state upon introduction of pressurized fluid to an interior of the balloon. The applicator also includes a conduit in fluid communication with the interior of the balloon for introducing pressurized fluid to the interior of the balloon to move the balloon from the deflated state to the inflated state, and a catheter extending over at least a portion of the balloon for delivering radiation from a radiation source to the tissue adjacent the cavity.